

DERWENT-ACC-NO: 1982-85361E

DERWENT-WEEK: 198240

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TITLE: Thin wall ceramic tubes forming - includes  
waxing of mandrel before winding of extruded film of  
refractory

INVENTOR: CHUBENKO, N G; VAKSER, I A

PRIORITY-DATA: 1979SU-2825891 (October 5, 1979)

PATENT-FAMILY:

| PUB-NO         | PUB-DATE         | LANGUAGE |
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ABSTRACTED-PUB-NO: SU 887175B

BASIC-ABSTRACT:

Prevention of warping of hollow ceramic components having thin walls is achieved by extruding the plasticised mass filled with ceramic powder and winding the ribbon on to a mandrel. The latter is removed and the blanks are sintered when the filler is in the form of refractory metal carbides. The mandrel is made of graphite, and a layer of refractory metal carbide followed by a wax layer of saccharose or Wood's alloy are placed on it before the winding. The thickness of the protective layer is 1-10% less than the linear contraction of the ribbon, while the sintering is carried out in vacuum and then the mandrel is removed. Bul.45/7.12.81

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Basic Abstract Text - ABTX (1):

Prevention of warping of hollow ceramic components having thin walls is achieved by extruding the plasticised mass filled with ceramic powder and winding the ribbon on to a mandrel. The latter is removed and the blanks are sintered when the filler is in the form of refractory metal carbides. The mandrel is made of graphite, and a layer of refractory metal carbide followed by a wax layer of saccharose or Wood's alloy are placed on it before the winding. The thickness of the protective layer is 1-10% less than the linear contraction of the ribbon, while the sintering is carried out in vacuum and then the mandrel is removed. Bul.45/7.12.81

Title - TIX (1):

Thin wall ceramic tubes forming - includes waxing of mandrel before winding of extruded film of refractory

Standard Title Terms - TTX (1):

THIN WALL CERAMIC TUBE FORMING WAX MANDREL WIND EXTRUDE FILM REFRACTORY